

PRE-EDIT

SPECIFICATION a. Page Missing b. Text Continuity c. Holes through Data d. Other Missing Text <input checked="" type="radio"/> e. Illegible Text f. Duplicate Text g. Brief Description h. Sequence Listing i. Appendix j. Amendments k. Other	MESSAGE ① ILLEGIBLE TEXT in table on page 141 : Please supply a replacement page 141. ② CONTINUING DATA on bib sheet matches that on spec. (per Amnt of 04-04-02) page 1, lines 6-28, but the 2 subsequent paragraphs cite additional data NOT appearing in PALM bib database for this appl. (Please see page 1, line 30 through page 2, line 18.) Please reconcile. <p style="text-align: right;">THANK YOU.</p>
CLAIMS a. Claim(s) Missing b. Improper Dependency c. Duplicate Numbers d. Incorrect Numbering e. Index Disagrees f. Punctuation g. Amendments h. Bracketing i. Missing Text j. Duplicate Text k. Other	RESPONSE Replacement page is submitted by the inventor. <p style="text-align: right;">initials AMW</p> <p style="text-align: right;">initials GW</p>

Exonucleases

Enzyme Name (exemplary commercial source & other comments)	5'→3' Exonuclease	3'→5' Exonuclease	5'→3' Polymerase	Strand Displacement	Km dNTPs
Vent _R DNA Polymerase ^a	No	Yes	Yes	Yes ^c	60 μM ^c
Deep Vent _R DNA Polymerase ^a	No	Yes	Yes		50 μM ^c
<i>E. coli</i> DNA Polymerase I ^b	Yes	Yes	Yes	No	1–2 μM ^f
Klenow Fragment DNA Polymerase I ^b	No	Yes	Yes	Yes	2 μM ^g
T4 DNA Polymerase ^a	No	Yes	Yes	No	2 μM ^h
T7 DNA Polymerase ^a	No	Yes	Yes	No	18 μM ⁱ
Taq DNA Polymerase ^b	Yes	No	Yes	No	13 μM ^c
Mung Bean Nuclease ^{bk}	No	Yes	Yes		
S1 Nuclease ^{bm}	No	Yes	Yes		
Pfu DNA Polymerase ^b	No	Yes	Yes		
Tli DNA Polymerase ^b	No	Yes	Yes		
rBst DNA Polymerase ^c	Yes	No	Yes		
Pwo DNA Polymerase ^d	No	Yes	Yes		
Exonuclease I ^c	No	Yes			
Exonuclease III ^c	No	Yes			

a. Stratagene

b. Promega

c. Epicenter

d. Roche

e. Kong, H.M., Kucera, R.B., and Jack, W.E., (1993) *J. Biol. Chem.* 268, 1965–1975.

f. McClure, W.R. and Jovin, T.M., (1975) *J. Biol. Chem.* 250, 4073–4080.

g. Polesky A.H., Steitz, T.A., Grindley, N.D.F. and Joyce, C.M., (1990) *J. Biol. Chem.* 265, 14579–14591.

h. Gillin, F.D. and Nossal, N.G., (1975) *Biochem. Biophys. Res. Commun.* 64, 457–464.

i. Patel, S.S., Wong, E. and Johnson, K.A., (1991) *Biochemistry* 30, 511–525.

k. exhibits some double-stranded exonuclease activity from both ends at higher concentrations of enzyme

m. exhibits some double-stranded exonuclease activity at higher concentrations of enzyme